OIPE JC161
NOV 15 2004
PATENT & TRADEMARK OFFICE

IFW

CASE D0323 NP

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Stephen C. D'Amico		11-11-04
Type or print name	Signature	Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

RAMANATHAN ET AL.

APPLICATION NO: 10/800,249

FILED: MARCH 12, 2004

FOR: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR VARIANT OF HM74, HGPRBMY74

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Bristol-Myers Squibb Company
Patent Department
P.O. Box 4000
Princeton, NJ 08543-4000
(609) 252-5289

Stephen C. D'Amico
Agent for Applicants
Reg. No. 46,652

Date: 11-11-04

FORM PTO-1449 (REV. 7-85)
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

OIPE JC151 NOV 15 2004 PATENT & TRADEMARK OFFICE

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		U.S. APPLICATION DOCUMENT	DATE OF PUBLICATION	NAME	CLASS	SUBCLASS	FILING DATE
	AA	2002/0187514	12/12/02	Chen et al.			
	AB	2004/0038201	2/26/04	Nau et al.			
	AC	2004/0092520	5/13/04	Griffith			
	AD	2004/0117125	6/17/04	Chen et al.			
	AE	2004/0122074	6/24/04	Dow et al.			
	AF	2004/0142377	7/22/04	Unett et al.			

U.S. PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AG	6,555,339	4/29/03	Liaw et al.			
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	AK	JP 2004-198202	7/15/04	JP			☐	☐
	AL	JP 2004-500614	1/8/04	JP			☐	☐
	AM	WO 2004/037823	5/6/04	PCT			☐	☐
	AN	WO 2004/016608	2/26/04	PCT			☐	☐
	AO	WO 2004/039320	5/13/04	PCT			☐	☐

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AP	NCBI Entrez Accession No. BC063461 (gi:39645840), Strausberg, R.L. et al., April 1, 2004
	AQ	AbdAlla, S. et al., "AT_1-receptor heterodimers show enhanced G-protein activation and altered receptor sequestration", Nature, Vol. 407, pp. 94-98 (2000)
	AR	Alam, J. et al., "Reporter Genes: Application to the Study of Mammalian Gene Transcription", Analytical Biochemistry, Vol. 188, pp. 245-254 (1990)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	2AA	WO 2004/039815	5/13/04	PCT			☐	☐
	2AB	WO 2004/043960	5/27/04	PCT			☐	☐
	2AC	WO 2004/052365	6/24/04	PCT			☐	☐
	2AD	WO 2004/052864	6/24/04	PCT			☐	☐
	2AE	WO 2004/052889	6/24/04	PCT			☐	☐
	2AF	WO 2004/052894	6/24/04	PCT			☐	☐
	2AG	WO 2004/053454	6/24/04	PCT			☐	☐
	2AH	WO 2004/056865	7/8/04	PCT			☐	☐
	2AI	WO 2004/064836	8/5/04	PCT			☐	☐
	2AJ	WO 2004/071378	8/26/04	PCT			☐	☐
	2AK	WO 2004/071394	8/26/04	PCT			☐	☐
	2AL	WO 2004/072648	8/26/04	PCT			☐	☐
	2AM						☐	☐
	2AN						☐	☐
	2AO						☐	☐
	2AP						☐	☐
	2AQ						☐	☐
	2AR						☐	☐
	2AS						☐	☐
	2AT						☐	☐
	2AU						☐	☐
	2AV						☐	☐
	2AW						☐	☐
	2AX						☐	☐
	2AY						☐	☐
	2AZ						☐	☐

EXAMINER | **DATE CONSIDERED**

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	3AA	Altschul, S.F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Research, Vol. 25, No. 17, pp. 3389-3402 (1997)
	3AB	Baldwin, J.M., "Structure and function of receptors coupled to G proteins", Current Opinion in Cell Biology, Vol. 6, pp. 180-190 (1994)
	3AC	Bateman, A. et al., "The Pfam Protein Families Database", Nucleic Acids Research, Vol. 28, No. 1, pp. 263-266 (2000)
	3AD	Baud, V. et al., "EMR1, an Unusual Member in the Family of Hormone Receptors with Seven Transmembrane Segments", Genomics, Vol. 26, pp. 334-344 (1995)
	3AE	Blache, P. et al., "Cloning and Tissue Distribution of a New Rat Olfactory Receptor-like (OL2)", Biochemical and Biophysical Research Communications, Vol. 242, No. 3, pp. 669-672 (1998)
	3AF	Bolander, F.F., Molecular Endocrinology, Second Edition, Academic Press, Inc., publ., pp. 162-176 (1994)
	3AG	Boss, V. et al., "Induction of NFAT-mediated Transcription of G_q-coupled Receptors in Lymphoid and Non-lymphoid Cells", The Journal of Biological Chemistry, Vol. 271, No. 18, pp. 10429-10432 (1996)
	3AH	Chen, G. et al., "Constitutive receptor systems for drug discovery", Journal of Pharmacological and Toxicological Methods, Vol. 42, pp. 199-206 (1999)
	3AI	Chiquet-Ehrismann, R. et al., "Tenascin: an Extracellular Matrix Protein Involved in Tissue Interactions during Fetal Development and Oncogenesis", Cell, Vol. 47, pp. 131-139 (1986)
	3AJ	Conklin, B.R. et al., "Substitution of three amino acids switches receptor specificity of $G_q\alpha$ to that of $G_i\alpha$", Nature, Vol. 363, pp. 274-276 (1993)
	3AK	Coughlin, S.R., "Expanding horizons for receptors coupled to G proteins: diversity and disease", Current Opinion in Cell Biology, Vol. 6, pp. 191-197 (1994)
	3AL	Dorn II, G.W. et al., "Low- and high-level transgenic expression of β_2-adrenergic receptors differentially affect cardiac hypertrophy and function in Gαq-overexpressing mice", Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 6400-6405 (1999)
	3AM	Feng, Y. et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor", Science, Vol. 272, pp. 872-877 (1996)
	3AN	Fiering, S. et al., "Single cell assay of a transcription factor reveals a threshold in transcription activated by signals emanating from the T-cell antigen receptor", Genes and Development, Vol. 4, pp. 1823-1834 (1990)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	4AA	Gaudin, P. et al., "Constitutive Activation of the Human Vasoactive Intestinal Peptide 1 Receptor, a Member of the New Class II Family of G Protein-coupled Receptors", The Journal of Biological Chemistry, Vol. 273, No. 9, pp. 4990-4996 (1998)
	4AB	George, S.E. et al., "Functional Coupling of Endogenous Serotonin (5-HT_{1B}) and Calcitonin (C1a) Receptors in CHO Cells to a Cyclic AMP-Responsive Luciferase Reporter Gene", Journal of Neurochemistry, Vol. 69, No. 3, pp. 1278-1285 (1997)
	4AC	Gilman, A.G., "G Proteins: Transducers of Receptor-Generated Signals", Ann. Rev. Biochem., Vol. 56, pp. 615-649 (1987)
	4AD	Gray, J.X. et al., "CD97 is a Processed, Seven-Transmembrane, Heterodimeric Receptor Associated with Inflammation", The Journal of Immunology, Vol. 157, pp. 5438-5447 (1996)
	4AE	Hawes, B.E. et al., "Phosphatidylinositol 3-Kinase Is an Early Intermediate in the Gβγ-mediated Mitogen-activated Protein Kinase Signaling Pathway", The Journal of Biological Chemistry, Vol. 271, No. 21, pp. 12133-12136 (1996)
	4AF	Hofmann, K. et al., MF C-35: "A Database of Membrane Spanning Protein Segments", Biol. Chem. Hoppe-Seyler, Vol. 374, p. 166 (1993)
	4AG	Horn, F. et al., "G protein-coupled receptors *in silico*", J. Mol. Med., Vol. 76, pp. 464-468 (1998)
	4AH	Horn, F. et al., "The Interaction of Class B G Protein-Coupled Receptors with their Hormones", Receptors and Channels, Vol. 5, pp. 305-314 (1998)
	4AI	Karpe, F. et al., "The nicotinic acid receptor — a new mechanism for an old drug", Lancet, Vol. 363, pp. 1892-1894 (2004)
	4AJ	Karttunen, J. et al., "Measurement of ligand-induced activation in single viable T cells using the *lacZ* reporter gene", Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 3972-3976 (1991)
	4AK	Kim, J.-M. et al., "Structure and function in rhodopsin: Rhodopsin mutants with a neutral amino acid at E134 have a partially activated conformation in the dark state", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 14273-14278 (1997)
	4AL	Kypson, A.P. et al., "Adenovirus-mediated gene transfer of the β_2-adrenergic receptor to donor hearts enhances cardiac function", Gene Therapy, Vol. 6, pp. 1298-1304 (1999)
	4AM	Lu, Z.-L. et al., "The Functional Topography of Transmembrane Domain 3 of the M_1 Muscarinic Acetylcholine Receptor, Revealed by Scanning Mutagenesis", The Journal of Biological Chemistry, Vol. 274, No. 11, pp. 7309-7315 (1999)
	4AN	Maniatis, T. et al., Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, publ., pp. v-x (table of contents) (1982)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	5AA	Matsuoka, I. et al., "Identification of Novel Members of G-Protein Coupled Receptor Superfamily Expressed in Bovine Taste Tissue", Biochemical and Biophysical Research Communications, Vol. 194, No. 1, pp. 504-511 (1993)
	5AB	Okada, T. et al., "Activation of rhodopsin: new insights from structural and biochemical studies", Trends in Biochemical Sciences, Vol. 26, No. 5, pp. 318-324 (2001)
	5AC	Parma, J. et al., "Somatic mutations in the thyrotropin receptor gene cause hyperfunctioning thyroid adenomas", Nature, Vol. 365, pp. 649-651 (1993)
	5AD	Raming, K. et al., "Identification of a Novel G-Protein Coupled Receptor Expressed in Distinct Brain Regions and a Defined Olfactory Zone", Receptors and Channels, Vol. 6, pp. 141-151 (1998)
	5AE	Rees, S. et al., Chapter 8: "Reporter gene systems for the study of G protein-coupled receptor signal transduction in mammanlian cells", Signal Transduction: A Practical Approach, Second Edition, Oxford University Press, publ., Milligan, G., ed., pp. 171-221 (1999)
	5AF	Salcedo, R. et al., "Human endothelial cells express CCR2 and respond to MCP-1: direct role of MCP-1 in angiogenesis and tumor progression", Blood, Vol. 96, No. 1, pp. 34-40 (2000)
	5AG	Selbie, L.A. et al., "G protein-coupled-receptor cross-talk: the fine-tuning of multiple receptor-signalling pathways", Trends in Pharmacological Sciences, Vol. 19, pp. 87-93 (1998)
	5AH	Sica, A. et al., "Defective Expression of the Monocyte Chemotactic Protein-1 Receptor CCR2 in Macrophages Associated with Human Ovarian Carcinoma", The Journal of Immunology, Vol. 164, pp. 733-738 (2000)
	5AI	Strosberg, A.D., "Structure/function relationship of proteins belonging to the family of receptors coupled to GTP-binding proteins", Eur. J. Biochem., Vol. 196, pp. 1-10 (1991)
	5AJ	Suto, C.M. et al., "Selection of an Optimal Reporter Gene for Cell-Based High Throughput Screening Assays", Journal of Biomolecular Screening, Vol. 2, No. 1, pp. 7-9 (1997)
	5AK	Tao, Y.-X. et al., "Constitutive Activation of G Protein-Coupled Receptors as a Result of Selective Substitution of a Conserved Leucine Residue in Transmembrane Helix III", Molecular Endocrinology, Vol. 14, No. 8, pp. 1272-1282 (2000)
	5AL	Thomas, M.B. et al., "Chemoreceptors expressed in taste, olfactory and male reproductive tissues", Gene, Vol. 178, pp. 1-5 (1996)
	5AM	Watson, S. et al., "Introduction: Seven Transmembrane Proteins", The G-Protein Linked Receptor FactsBook, Academic Press Limited, publ., pp. 2-6 (1994)
	5AN	Wess, J., "G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition", The FASEB Journal, Vol. 11, pp. 346-354 (1997)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

FORM PTO-1449 (REV. 7-85)
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004
Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	6AA	Whitney, M. et al., "A genome-wide functional assay of signal transduction in living mammalian cells", Nature Biotechnology, Vol. 16, pp. 1329-1333 (1998)
	6AB	Xing, H. et al., "A Fluorescent Reporter Assay for the Detection of Ligands Acting Through G_i Protein-Coupled Receptors", J. of Receptor & Signal Transduction Research, Vol. 20, No. 4, pp. 189-210 (2000)
	6AC	Yuan, T.T.-T. et al., "Cloning and genetic characterization of an evolutionarily conserved human olfactory receptor that is differentially expressed across species", Gene, Vol. 278, pp. 41-51 (2001)
	6AD	Zlokarnik, G. et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with β-Lactamase as Reporter", Science, Vol. 279, pp. 84-88 (1998)
	6AE	
	6AF	
	6AG	
	6AH	
	6AI	
	6AJ	
	6AK	
	6AL	
	6AM	
	AN	

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.